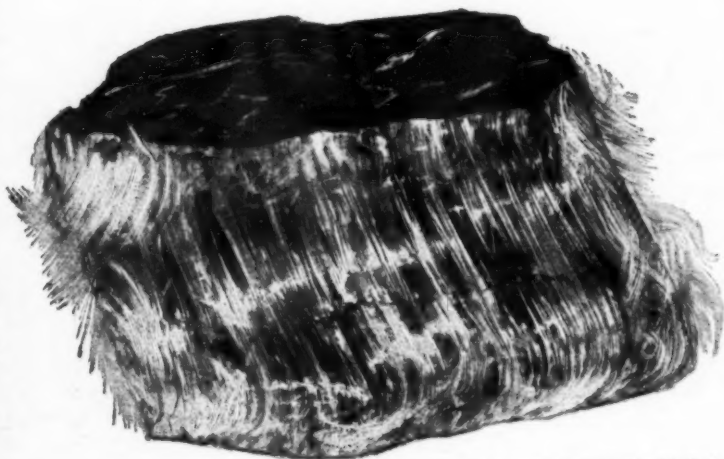


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SEPTEMBER 1960

Number 3

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MARKETING ASBESTOS

By: W. E. Sinclair, M.I.M.M.

The numerous variables associated with the composition and structure of asbestos are encountered in every aspect of the mineral, not excluding the matter of marketing the product.

In normal trade conditions, the term marketing might be said to include the question of dealing in any specified commodity, that is, the purchase or sale according to the price as affected by supply or demand. Though this is a quite straightforward procedure in most cases, it is not so in the marketing of asbestos since this mineral occurs in several different varieties, each of which is produced in a large number of grades, according to the length and strength of the fibres, or the texture, color and other natural characteristics.

TRADING:

Indeed, the business of simply selling raw asbestos introduces a multiplicity of variables, depending to a great extent on the means of disposal of stocks by the producer.

Where a company mines, mills and manufactures asbestos products, (sometimes referred to as a "verticle type" company) trading does not present a problem, except where over-production of certain grades necessitates selling on the open market. This class of company forms a larger proportion, in terms of tonnage, than other producers, although there are a greater number of independent companies, but many of these are small producers.

Some large independent producers enjoy advantages somewhat similar to those of the "vertical type", by operating on a fixed mine-to-factory basis. They may also, and usually do, have surplus stocks to offer on the open market. In this case many companies have an organized sales section with established agents in the principal world centres. Such an arrangement overcomes the many difficulties that arise in the matter of prices, quality, storage and the delivery of odd lots.

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The smaller producers, except in rare circumstances, have little option but to offer their output on the open market. This is usually effected through jobbing brokers or commission agents. Unfortunately, this system is far from satisfactory because of the indefinite selling price and the questionable quality of the fibre. Unless asbestos is sold on a fixed price basis, bargaining by the agent eventually leads to complaints from the buyer, more especially if the quality of the fibre fails to conform strictly to samples submitted by the broker. Instances are known where parcels of asbestos have been obtained by brokers and sold to consumers at prices much higher than the regular market prices. Such practice casts a most serious reflection on the producer.

GRADING:

The quality and grade of the asbestos sold on the open market assumes a most important aspect. Where fibre is not graded to standard specifications, as is done in the case of chrysotile, the general quality with regard to cleanliness, fibre length and strength and porosity are vital attributes. These conditions refer in particular to the amphibole varieties, such as, crocidolite, amosite and anthophyllite.

Most large producers, and certainly all manufacturers, have fully equipped laboratories for testing and controlling the quality of the asbestos to be used in certain specialized applications. The consumer normally checks the quality of all asbestos received before processing, even when standard graded fibre is regularly received, but when dealing with variable shipments, the work involved in proving its suitability is a far more costly undertaking. In some instances, this means prior treatment and serious loss of material and time. Usually this is an essential initial operation to standardize a special processing system, not only on the grade of the fibre, but on flexibility, color and chemical composition. To execute this costly work repeatedly, on doubtful shipments of fibre, must obviously result in uneconomic fabrication.

CLASSIFICATION:

The importance of standard classification is a recogniz-

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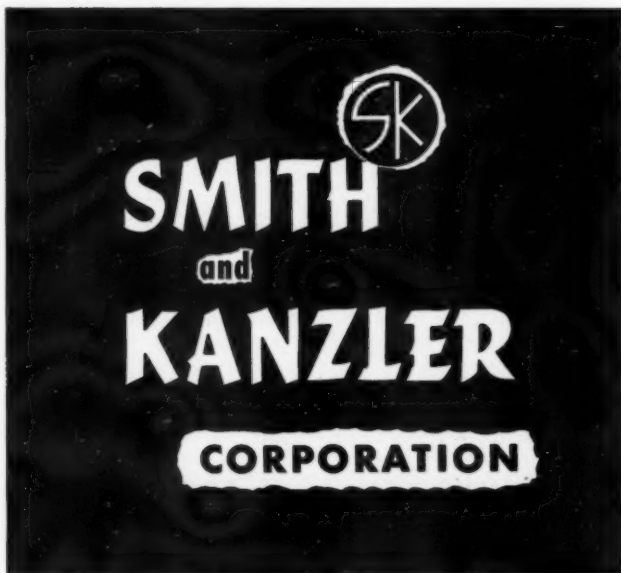
ed exigency, a fact that was proved conclusively in Canada some years ago, at a time when producers adapted their own individual grades and symbols causing complete confusion and dissatisfaction amongst buyers everywhere. This serious state of affairs was overcome eventually by the combined cooperation of the Quebec Government and all the mines establishing an accepted standard system of grading.

Because of the fairly uniform structure of the asbestos deposits in the Canadian fields, it has been possible, with scientific milling processes, to institute a grading technique that provides up to seventy-five different consistent grades and qualities to meet the wide range of manufacturers requirements. The grades are controlled within definite limits by means of the Quebec Standard Testing Machine. Only crudes, sand and gravels are not included in this general classification.

Unfortunately, the Canadian standard grading system is not wholly adhered to in other producing countries although, local grading of chrysotile, in many cases, conforms or is equivalent to some of the regular grades. The amphibole varieties of asbestos are rarely graded on the chrysotile basis and indeed, unhappily there is no uniformity, each mine having its own system and series of symbols and marks, that often lead to confusion and complaints, for the simple reason that in many instances the grade marks may not be known to the buyer, while the price is also an uncertain factor.

In standard graded chrysotile, packages or bags are clearly marked indicating the grade and the producer. The price of Canadian grades is firm and stable.

For purposes of identification, it is generally accepted that all packages are clearly marked with the producers name and the class and grade of the contents as well as the weight. This today is accepted as 100 lb. net. The indiscriminate use of the one cwt. weight, or 125 to 150 lb. weights, has been mostly discontinued, but, in some cases, where mines are within reasonable distance of the factories and no storage is necessary, shipments are made in 30 to 50 ton truck loads.



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STORAGE:

The storage or warehousing of asbestos stocks is a procedure that is avoided if possible because of the additional indirect costs due to double handling. However, it is an almost unavoidable business at most mines, even as a temporary expedient, but more so when excess stocks are unsold.

Manufacturers, even when receiving regular supplies, usually provide warehousing to carry extra stocks to ensure continuous operations and also to provide for emergencies, such as transport delays and accidents. Producers having their own agents abroad usually establish storage depots in the main manufacturing centres, to facilitate prompt delivery of consumers requirements.

There are times when normal quantities of asbestos on world markets are in short supply, as was experienced during the last war. This has led to stock-piling of certain grades of strategic varieties of asbestos as standby stocks, in case of such emergencies. These amounts, however, would not affect the normal supply and demand to any great extent.

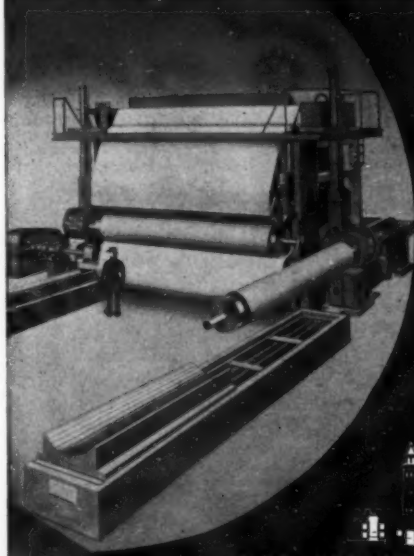
There are instances when an exceptional demand for certain grades of fibre results in a falling demand for other grades, resulting in the need to store these grades indefinitely and unprofitable production in the interim.

SELLING CONDITIONS:

Producers and their accredited agents are able, in certain circumstances, to ease such a position by a price adjustment on saleable and low demand grades to encourage a greater use of the latter and so even up on supply and demand.

To ensure profitable production, a steady demand for all grades produced is essential, since the producer can only recover the proportional grades of fibre in the ore treated and must be assured of the disposal of the whole output. In the "vertical type" companies or the mine-to-factory independent producers, these difficulties do not often occur because the consumer, in each case, having a working knowledge of all the grades delivered regularly,

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is able to inter-change or blend certain grades to ensure effective and economical utilization of all asbestos supplied. Actually, in order to ensure more stable prices and to maintain balanced market conditions, the interchange and blending of various grades is more or less common practice amongst manufacturers today.

ASBESTOS PRODUCTS:

In the manufacturing sphere, the matter of trade distribution is relatively straightforward and stable as compared with the production and marketing end of the industry. This is accounted for by the fact that the fabrication of asbestos products is, in general terms, carried out in a number of distinct sections, divided according to several different industrial demands. There are very few factories that use all grades of fibre and manufacture all classes of products under one roof. The textile trade, for instance, deals in spinning fibres mainly, to produce such goods as yarns, cloth and woven material for making specialized products as, diaphragms, mattresses, string and other woven commodities, mostly all-asbestos in their make up. Then again, the insulation processes are usually controlled by factories that manufacture asbestos paper, air-cell and many other insulants, either wholly asbestos or blended products. Asbestos-cement fabrication is another distinct section that deals with products required mainly for the building and construction industry. Similarly, brake linings and clutch facings comprise a specialized division that, in some cases, acquires the necessary woven yarn or tape from the textile manufacturer. The same applies to the fabrication of engineering products, such as, gaskets, washers, packing and electrical insulation products. This often constitutes a separate manufacturing section.

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U. S. BUREAU OF MINES

50th Anniversary

The Federal Bureau of Mines, a leader in scientific development and conservation of the United States' mineral resources since 1910, was fifty years old July 1, 1960.

The Bureau was created at a time when coal-mine disasters were claiming the lives of many workers. The agency's safety research and training and its cooperative efforts with management, labor, and other Federal and State agencies have been major factors leading to improved working conditions in all segments of the mineral industries.

In the ten years before the Bureau began its work in a single research laboratory on the old Arsenal grounds in Pittsburgh, Pennsylvania, coal miners died at the rate of 364 a year in major disasters. Since, the fight carried on by the Bureau, and others has reduced that yearly average disaster toll to 32, and impressive safety gains have been made throughout the Nation in all activities concerned with the mining and processing of minerals.

By controlling fires that sometimes break out in inactive coal deposits, the Bureau has saved for future generations millions of tons of valuable fuel reserves at a cost of less than a penny a ton. Valuable reserves of anthracite also have been saved through the Bureau's participation in mine-drainage projects in the hard coal regions of Pennsylvania.

American businessmen are aided by Bureau factfinding programs that supply statistical information and economic analyses on domestic and foreign minerals. Friendly foreign nations also benefit from technical advice and assistance provided by Bureau experts through the Economic Cooperation Administration.

In half a century the Bureau has published nearly 8,000 reports describing its findings in research and development work on minerals, mineral fuels, and industrial health and safety. An equal number of articles by Bureau researchers has appeared in the scientific, trade, and technical press of the United States and many foreign countries. Comprehensive 50-year lists of these reports and

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journal articles will be issued soon to mark the Bureau's golden anniversary.

Bureau scientists provided the United States with new metals like titanium and hafnium and also engineered the process now employed by industry to make zirconium metal, used in the atomic engine that powered the nuclear submarine, Nautilus, on its record-breaking run beneath the North Pole.

The Bureau has also added substantially to domestic supplies of mineral raw materials. Increased production of copper resulted from Bureau investigations at San Manuel, Arizona, and White Pine, Michigan, and many additional barrels of crude petroleum have been produced through the Bureau's promotion of secondary oil-recovery techniques. Bureau studies of blasting, roof bolting, rock dusting and other mining methods and practices have not only improved safety but also have increased efficiency in mines throughout the Nation.

Although the Bureau is proud of its achievements, it values the past primarily because it provides the knowledge needed in solving problems of the present and future. With 50 years of experience as a guide, the Bureau hopes in the half century ahead to strengthen further the mineral-resource base upon which the industrial progress and economic security of the United States depend.

"Design for Growth", is a recently published book commemorating the 25th anniversary of the founding of NATIONAL GYPSUM COMPANY.

Between the covers of this book is the most comprehensive portrait of National Gypsum ever published. Company records were opened to the author, Dean Richmond, and executives were asked to answer all his questions and cooperate with him in every way possible.

The result is a journalist's exciting history of an American business. The book is an absorbing story of how a few men with an idea overcame great obstacles to found a company. It is the story of how they built that one-plant infant into one of America's great industrial enterprises.

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BALDWIN-EHRET-HILL, INC.

Appoints New President and Chairman

The election of *Mr. Edward R. Stevens* as President of Baldwin-Ehret-Hill, Inc., manufacturer of thermal insulations and acoustical products, is announced by *Mr. Alvin M. Ehret, Jr.*, newly elected Chairman of the Board. The announcement follows Mr. Ehret's own election as Chairman to succeed *Mr. William H. Hill*. Mr. Hill has resigned from that post in order to devote full time to the company's growing foreign operations, which currently include plans for the formation of a European subsidiary.

Mr. Stevens joined Baldwin-Hill Co. as vice president in charge of sales in 1937. In 1955 he became executive vice president, and, since the merger of Baldwin-Hill with the Ehret Magnesia Manufacturing Company in August 1959, he has served in that capacity with the merged corporation.

Formerly president of the Ehret Magnesia Manufacturing Company, Mr. Ehret continued as President of Baldwin-Ehret-Hill after the merger. Mr. Hill, who founded Baldwin-Hill Co. in 1935, directed its operations as President until 1959 when he became Board Chairman of the merged company. He will continue to serve as a member of the company's Board of Directors.

Baldwin-Ehret-Hill, Inc. manufactures and markets nationally a wide range of thermal insulating materials for use at temperatures from 450°F below zero to 2000°F above. It also produces a growing line of building and acoustical products. The company operates five plants located in Trenton, New Jersey, Valley Forge, Pennsylvania, Huntington, Indiana, Kalamazoo, Michigan and Temple, Texas.

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ARTHUR F. MOORE, or "Doc" as he was affectionately known throughout the Asbestos Industry, passed away June 19th, 1960, at his home in Miami, Florida.

Mr. Moore had retired from the Philip Carey Manufacturing Company, Cincinnati, Ohio, on July 1st, 1946, where he had served for 28 years as Manager of the Asbestos Department. He had established a reputation as an authority on asbestos fibre and his collection of more than 200 specimens from asbestos deposits throughout the world is one of the finest in the country.

We are sure Mr. Moore will be missed by his many friends in the Asbestos Industry.

JOHNSON'S COMPANY LIMITED, to celebrate its eighty-fifth Anniversary, has produced a very attractive booklet outlining the highlights of the company's history and describing, in a non-technical manner, how asbestos is produced.

From very small beginnings, Johnson's Company Limited and Johnson's Asbestos Company have grown, until now its fibre is shipped to almost every part of the World and the five languages (English, French, German, Spanish and Japanese) in which the booklet is printed symbolize, in a small way, the wide spread activities of the company.

Johnson's Company Limited hopes at a later date to supplement this publication with another, written from a technical viewpoint, on the properties and uses of Asbestos.

The company is proud of its history as the oldest producer of asbestos in the World and appreciates the confidence of its customers, some of whom have been buying asbestos from Johnson's almost since the day it started. Improvements and additions to production facilities are constantly being made and others are planned, to ensure that Johnson's Company Limited retains this good-will.

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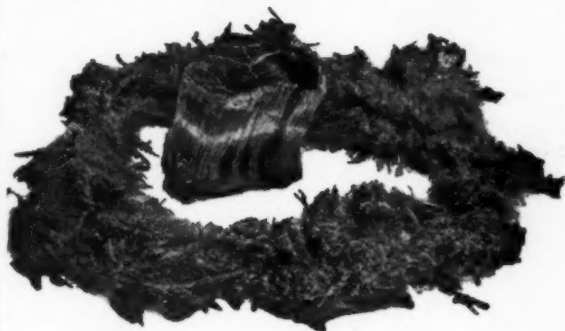
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These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

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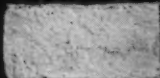
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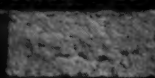
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Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 95, Lockland, Cincinnati 15, Ohio, or Carey-Canadian Mines, Ltd., East Broughton Station, P.Q., Canada.

Carey®

MURRAY MINING CORPORATION LIMITED, Toronto, Canada, has recently released its Progress Report of the Ungava Asbestos Project in Quebec. This report contains results and accomplishments of the Project as well as a consolidated balance sheet as of June 4, 1960, for Murray Mining and its subsidiary companies.

ASBESTOS CORPORATION LIMITED recently published a very interesting and informative booklet giving the history of the Company and describing its products. The booklet also contains many interesting photographs and charts and will make a nice addition to any Asbestos library.

Copies of this booklet may be obtained by writing to the General Sales Manager, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada.

CORRECTION—In the articles, "The Outlook for Crocidolite Asbestos", published in our July 1960 number and, "Grading Crocidolite Asbestos", published in our February 1959 number, the author, W. E. Sinclair, states that Australian producers of "Blue" asbestos are subsidized by the Commonwealth.

It has been pointed out to "ASBESTOS" by an Australian producer of Crocidolite Asbestos that "a small subsidy was received for a period of nine months some years ago, but the industry has received no subsidy of any kind from any source during the last five years".



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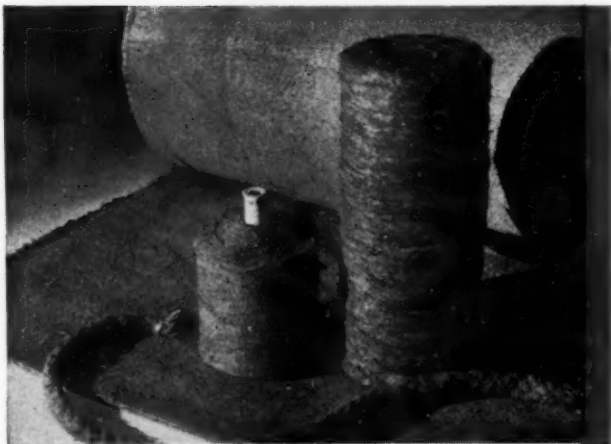
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NORAMITE

... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



NAAC

In the United States

NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois



In Canada

CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ontario

Subsidiaries of The Cape Asbestos Company, Ltd., London

BUILDING

Sharp gains in the heavy engineering sector sent construction contracts in July to \$3,596,909,000, the highest monthly total so far this year, F. W. Dodge Corporation reported. However, the July 1960 total was 2% below the very high level of the same month last year, as non-residential contracts dipped slightly and contracts for residential buildings remained well below year-earlier levels.

The Dodge Index of construction contracts, which is adjusted for normal seasonal fluctuations, rose to 285 in July (1947-49=100) compared with 272 in June, 244 in May, and 235 at the beginning of the year.

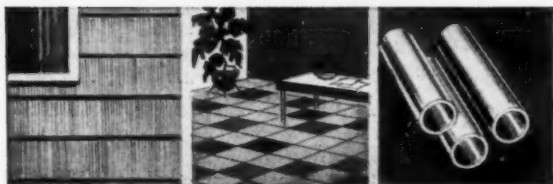
Heavy engineering contracts in July amounted to \$1,115,686,000, up 44% from the July 1959 level. Chief factor in the gain was a very sharp rise in contracts for electric light and power systems which nearly tripled their year-earlier performance. Highways and water supply systems also showed notable gains over last year.

Contracts for non-residential buildings in July totalled \$1,151,980,000, down 3% from a year ago. Despite the overall drop in this category, there were some bright spots. Contracts for hospital buildings rose 46% over last year manufacturing buildings were up 18%, and social and recreational buildings and schools also showed gains.

Residential building contracts in July amounted to \$1,329,243,000, down 21% from a year ago. Among the major residential building types, only apartment building contracts showed a gain, rising 6% over last year. The number of dwelling units represented by the July residential contracts totalled 96,935, down 23% from July 1959.

Cumulative totals for the first seven months of 1960 with percentage changes from the corresponding period of last year, were: non-residential building \$6,940,239,000, up 1%; residential building \$8,922,251,000, down 16% and heavy engineering \$5,285,557, up 5%—total construction \$21,148,047, down 6%.

High grade asbestos fibers produced to your needs



Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics — name your product—Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

If asbestos fiber is a factor in your manufacturing process, call or write Flintkote for a quick answer to any problem.

Flintkote Mines, Ltd.

(Subsidiary of the
Flintkote Company)
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Canada • New York
Office: 30 Rockefeller
Plaza, New York 20, N.Y.



• Toronto Office: 30th
Street, Longbranch,
Toronto, Ont., Canada
• London Office: Adam
House, 1 Fitzroy Square,
London W-1, England



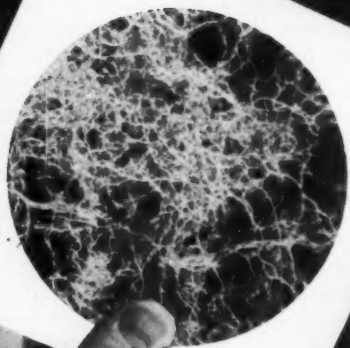
J-M Asbestos Yarn
—made from
uniform high-
quality roving.
Available in any
grade, cut or ply
Plain, reinforced
with other yarns
or wire, or treated.



J-M
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An important "plus" in J-M Asbestos FIBRES or TEXTILES...

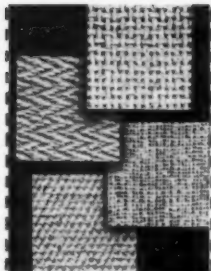
UNIFORMITY:



100 X

In the most modern
asbestos mill in the
world, exacting
milling techniques
enable J-M to
maintain complete
uniformity of fibre
within more than 60
commercial grades.

J-M Asbestos Tape—uniform high-grade yarns that combine exceptional electrical and thermal insulating properties with high tensile strength.



J-M Asbestos Cloth—uniform texture from light-weave to open-weave. Exceptional resistance to heat, flame, chemicals. In all standard grades.

assured by Johns-Manville

Whether you require raw asbestos fibres or finished textiles . . . be sure of uniform quality by dealing with asbestos headquarters . . . *Johns-Manville*.

J-M combines the production of the world's largest asbestos mine at Asbestos, Quebec, with the facilities of the world's largest asbestos mill. Highly skilled asbestos technicians use the latest equipment to provide a precise control of production that assures uniformity, correct grading and maintenance of quality standards.

For FIBRE literature write Asbestos Fibre Division, Box 1500, Asbestos, Quebec, Canada.

For TEXTILE literature write Asbestos Textiles Department, Box 14, New York 16, N. Y.

JOHNS-MANVILLE



MARKET CONDITIONS

GENERAL BUSINESS.

General business continues on a fairly steady basis with no startling moves either up or down as yet. Most economists and businessmen are still looking for a fall upturn. However as this is written orders for steel which were expected to lead to increased production during September have not come up to expectations and output for September will probably continue at little better than present levels. There is no pronounced indication as to when the general economy will move from the plateau of the last few months either upward or downward. Possibly no move will occur until after the Presidential election.

ASBESTOS—RAW MATERIAL.

July 1960 asbestos fibre shipments for the industry were slightly higher than those of the same period last year. Year to date shipments are running at a rate of approximately 10% or 44,200 tons ahead of 1959.

The domestic market, as a result of an acute reduction in the building and automotive industries, continues at a depressed level.

Export shipments are running well above those for the same period last year and are expected to remain at a high level. This upward trend is attributed to a "boom" in the overseas building industry in particular.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. These products are used principally by heavy industry. Only a very small portion of the total production goes into consumer goods. Sales during the first eight months of the year were disappointing. A pick-up in steel production and related industries will result in a greatly expanded demand.

Asbestos Brake Lining. Replacement and O.E.M. markets are off slightly in sales for this product, due to several strikes in parts plants and the reduced dollar value



asbestos cement department

**10, VIA SANTA TERESA
TURIN, ITALY**

**Manufacturers of all types
of
Fully Automatic**

asbestos cement machinery

**Daily output guaranteed according to the
International Standard Specification:**

**150 ton high pressure pipes
300 ton flat and corrugated sheets**

of sets for compact cars. The outlook for the rest of the year is reasonably good and should end up about even with the record of 1959 sales in Replacement and perhaps slightly off on O.E.M. sales.

Asbestos Paper. The demand for this material has slowed down somewhat and prices are extremely competitive for that business which is available. This is due to the curtailed activities of a number of equipment accounts who normally use this product in their manufacturing process. Orders for the remainder of 1960 should be equal to last year. The demand for *Asbestos Millboard* has slowed down considerably due to the curtailed activities of many equipment manufacturers and gasket producers. The volume for the balance of the year should be equal to 1959. *Asbestos Saturated Paper*—Commercial and Industrial building appears to be levelling off and some projects have slowed down or been delayed until later in the year or early in 1961. The outlook for the remainder of 1960 should maintain fairly well at the present level with some seasonal adjustment downward near the end of the year.

Asbestos-Cement Producers. The market situation at the present time for these products is the same as it has been for many months being substantially depressed on those products supplied for residential construction, and being at fair levels on those used for industrial construction. The outlook for the rest of the year is anticipated to remain on the same level.

High Pressure Insulation. Orders for this material appear to have increased slightly during the past month although prices are competitive for almost any order, both at the manufacturing level and the contractor's level. The outlook appears more promising as considerable work is being figured which should ultimately result in greatly increased demand very late in the year or early next year.

Low Pressure Insulation. Orders for this material have been coming in slowly, due primarily to the use of supplantive materials. It is anticipated that volume for the remainder of the year will be about the same as 1959.

**All machinery for the equipment of plants
producing asbestos-cement pipes and sheets**

covering the entire production process from the stock
preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-
cement / Asbestos silos.

Sheet producing machines with one to three cylinder
moulds, automatic or semi-automatic combined pro-
duction lines for flat and corrugated sheets.

Piling equipment combined with cleaning and lubri-
cating machinery for flat and corrugated steel sheets,
suitable also for automatic operation / punching and
trimming machines / hydraulic presses.

Pipe winding machines for the production of pressure
pipes of up to 5 metres (16 ft. 5 in.) length and
1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and
joints / cut-off grinders / testing presses for pipes and
joints / calenders for the forming of plain and joint-
fitted pipes / mandrel pull off machines / autoclaves
for hardening of asbestos-cement sheets and pipes as
well as many other units, pumps and accessories.

Leaflets describing individual machines
will be readily sent on request.



J.M.VOITH A.G.

St. Pölten - Austria
P.O.B. 168 / Tel. 2501 / Teletype 01 510

Shingles—Roofing & Siding. The volume at present for siding is below that of last year. Business in the fall of this year is not expected to equal last year's volume.

Asbestos Pipes. The market situation continues uncertain and extremely competitive among piping materials of all types. The outlook seems to indicate a continuation of the present condition as the expected pickup in housing starts has failed to materialize.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

FIRE PREVENTION WEEK, October 9-15, 1960, marks the 89th anniversary of the Great Chicago Fire and the 38th anniversary of the special week which memorializes the terrible destruction by fire of one of the world's great cities. This observation is set aside to emphasize the year-round need for greater attention to fire safety and to stress again that very nearly all fires are preventable.

It was to combat public apathy that Fire Prevention Week was originally organized. Deriving from Fire Prevention Day which was first marked in 1911, the week is sponsored internationally by the non-profit public service organization, the National Fire Protection Association, with many other organizations joining in the effort.

Owners of high grade Tremolite deposit will consider offers to purchase, to extend exploration and development jointly, or to mine and market jointly. Located Southern Yukon Territory of Canada. Ships from the Orient dock 118 miles down the road at deep water port. Reply to Box No. 7RR-AA, "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

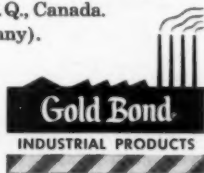
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Gold Bond asbestos floats are grit-free for uniform performance!

You can be sure of absolute uniformity when you buy Gold Bond® asbestos floats. They're filtered and screened many times during processing, checked and tested frequently for uniform grade and freedom from grit (*shown right*). Want better performance of your asbestos floats in your products? Write National Asbestos Mines, Ltd., Thetford Mines, P.Q., Canada. (Subsidiary of National Gypsum Company).

a step ahead of tomorrow





PRODUCTION STATISTICS

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2000 lbs.

Production for June 1960	10,738.16
Valued at	£623,602.00
Production for June 1959	9,349.81
Valued at	£624,960.00

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2000 lbs.

Production for June 1960 (Quebec)	94,012
Other Provinces	6,549
	<hr/>
	100,561

Total production for June 1959 was 98,012 tons.

AUSTRALIA

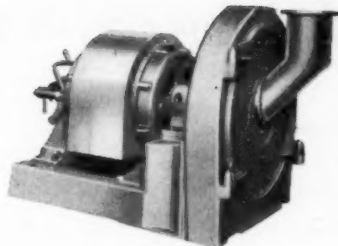
(Published by Bureau of Mineral Resources)

Tons 2,000 lbs.

	Quarter Ending December 31, 1959	Year 1959
Production		
Chrysotile	485	1,415
Crocidolite	3,937	16,441
	<hr/>	<hr/>
	4,422	17,856
Imports		
Chrysotile	7,731	24,316
Crocidolite	74	328
Amosite	3,310	12,019
Other	325	1,667
	<hr/>	<hr/>
	11,440	38,330
Exports		
Chrysotile .....	..	197
Crocidolite	1,855	12,684
Other	15	93
	<hr/>	<hr/>
	1,870	12,974

Bauer

Single Revolving Disc Mills



for your wet grinding

In this type of mill, one disc rotates while the other remains stationary.

These famous Bauer machines are used for wet applications in the asbestos industry...

1. To reduce coarse particles— $1/16''$ and larger.
2. To deflock fiber bundles in asbestos slurry, for the production of both paper and cement.

Our mills are adaptable to many specific purposes. We take pride in engineering installations to meet exact requirements. When we encounter new problems, we make tests in our fully equipped research laboratories.

You are invited to consult with us.

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CANADIAN AGENTS:—Lynn Macleod Engineering Supplies Ltd., Theford Mines, P.Q.
EXPORT AGENTS:—M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.



Bauer-McNett Classifier

A widely used device for classifying any sample of slurry into a number of fractions, each containing fibers of the same approximate length. Ask for literature.



Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

April 1960
Tons (2,240 lbs.)

From: Canada	43,144
Union of South Africa	1,207
Rhodesia (Ny)	622
Yugoslavia	590
United Kingdom	110
Other Countries	119

45,792

Valued at:\$4,927,073

By Grades:

Crude, Chrysotile, Yugoslavia	590
Crude, Chrysotile, Union of South Africa	113
Crude, Chrysotile, Rhodesia (Ny)	354
Crude, Chrysotile, Other Countries	44
Crude, Blue, Union of South Africa	836
Crude, Blue, Rhodesia (Ny)	147
Crude, Amosite, United Kingdom	110
Crude, Amosite, Union of South Africa	258
Crude, Amosite, Rhodesia (Ny)	121
Textile Fiber, Chrysotile, Canada	2,206
Textile Fiber, Chrysotile, Other Countries ..	13
Shingle Fiber, Chrysotile, Canada	5,371
Shingle Fiber, Chrysotile, Other Countries ...	18
Paper Fiber, Chrysotile, Canada	3,333
Other Fibers, Chrysotile, Canada	32,234
Other Fibers, Chrysotile, Other Countries ...	44

45,792

Manufactured Asbestos Goods:

April 1960
Quantity (lbs.) Value

Asbestos Yarn, United Kingdom	31,326	\$ 22,410
Other Countries	19,389	12,765
Asbestos Packing	4,819	6,469
Asbestos Shingle (Impregnated)		
Belgium	636,841	102,903
A-C Pipe A Fittings (Not Impregnated)		
Mexico	1,816,471	142,121
Belgium	1,517,933	128,359

**ASBESTOS
FIBRE**

OF ALL TYPES

**BRANDHURST COMPANY
LIMITED**

Vintry House

LONDON

E. C. 4

Telephone:

London Central 1411

(Private Branch Exchange)

Cables:

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London

Italy	4,257,549	170,112
Israel	147,436	10,280
Other Countries	55,666	2,913
A-C Mfrs—Other (Not Impregnated) ..	100,861	6,413
Asbestos Manufactures — Other .....	..	5,745
	<hr/>	<hr/>
	8,588,291	\$610,490

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials

Tons 2,240 lbs.

	June 1960
From: Union of South Africa	2,048
Basutoland, Bechuanaland & Swaziland	1,106
Rhodesia & Nyasaland	3,811
Canada	7,848
Other Commonwealth Countries	
& Irish Republic	5
Foreign Countries	255
	<hr/>
	15,073

UNION ASBESTOS & RUBBER CO.

Six-Month Report

Union Asbestos & Rubber Company, Chicago, Illinois, has announced that its earnings for the six months ending June 30, 1960, amounted to \$14,261, compared to \$12,303 for the corresponding period of 1959. Net sales for the first half of 1960 were \$5,906,636 compared with \$4,820,294 for the same period last year.

WANTED

Man to sell asbestos fibre in the United States for an established Canadian Asbestos Mining Company. State technical background and selling experience. Reply to Box No. 9-N. NJ, "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS MINING CORPORATION

1219 S. 19th Avenue
PHOENIX, ARIZONA



Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	May 1960	
	Tons (2,240 lbs.)	Value
To: Canada	213	\$ 32,450
Europe	198	41,608
Central America & Mexico	15	1,875
Other Countries	25	4,818
	451	\$ 80,751

Manufactured Asbestos Goods:

	May 1960	
	Quantity	Value
Asbestos Cement & Pipe Covering ..Lbs.	410,378	\$ 85,937
Asbestos Textiles & Yarn	41,677	50,872
Asbestos Packing	160,000	245,687
Asbestos Clutch Facing	No. 153,131	105,752
Asbestos Bk Lng (Mid & S.Mid) Lin.Ft.	170,665	67,580
Asbestos Brake Lining, Other	Lbs. 354,937	286,999
Asbestos Construction Material	Lbs. 1,495,523	187,271
Asbestos Manufactures — Others .....	..	51,878
		\$1,081,976

FIBREBOARD PAPER PRODUCTS CORPORATION

Six-Month Report

Fibreboard Paper Products Corporation's earnings for the second quarter of 1960, were \$876,000, equal to 50¢ per share of common stock compared to \$1,649,000 and 94¢ per share for the same period of 1959. Sales for the current quarter amounted to \$28,556,000 compared to \$30,797,000 for the same quarter of 1959.

For the six months ended June 30, 1960, earnings were \$1,285,000 or 73¢ per common share on sales of \$54,636,000. For the first six months of 1959, earnings were \$2,715,000 or \$1.55 per common share on sales of \$58,135,000.

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY

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DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes

socket pipes

flat and corrugated sheets

Projecting — Erecting — Handing over
in ready-for-operation condition

Get full information! Write now!



Exports From Canada

(Published by Dominion Bureau of Statistics)

<i>Unmanufactured Asbestos:</i>		May 1960	
	Tons (2,000 lbs.)		Value
<i>Crude</i>			
United States .....	..	\$	..
United Kingdom .....	..		..
South America .....	..		..
Central America & Mexico .....	..		..
European Countries	28		26,894
Other Countries	1		798
	29	\$	27,692
<i>Milled</i>			
United States	11,787	\$	2,392,658
United Kingdom	4,867		1,042,336
South America	2,341		412,180
Central America & Mexico	950		160,379
European Countries	15,539		2,918,546
Other Countries	9,452		1,603,979
	44,936	\$	8,530,078
<i>Shorts</i>			
United States	39,425	\$	2,132,605
United Kingdom	3,901		214,579
South America	635		40,486
Central America & Mexico	395		27,373
European Countries	5,006		284,527
Other Countries	3,347		260,798
	52,709	\$	2,960,368
<i>Grand Total—</i>			
<i>Unmanufactured Asbestos:</i>	97,674	\$	11,518,138
<i>Manufactured Asbestos Goods:</i>			
Brake Lining		\$	50,568
Packing .....			..
Other Materials			10,897
		\$	61,465

Jefferson Lake Sulphur Company and its subsidiaries have recently issued their Interim Report for the six months ended June 30, 1960. Contained in this report is an account of the progress of the Copperopolis Asbestos project. The plant and facilities of this project is scheduled for completion in the fall of 1961.

Your dependable, established, volume supplier of high-grade asbestos for every application is Lake Asbestos of Quebec. LAQ is an independent source of uniform quality chrysotile asbestos fibre and its annual capacity of 100,000 tons is your assurance of continuous supplies. For additional information, call or write Lake Asbestos of Quebec, Ltd., 120 Broadway, New York 5, N. Y., or your nearest sales agent.

NORTH AMERICAN SALES AGENTS:

California, Los Angeles
E. B. Taylor Company
California, San Francisco
E. M. Walls Company
Colorado, Denver
Braun-Knecht-Heimann Co.

Illinois, Chicago
Central Solvents & Chemicals Co.
Indiana, Indianapolis &
Ft. Wayne
Hoosier Solvents &
Chemicals Corp.

Kentucky, Louisville
Dixie Solvents & Chemicals Co.
Massachusetts, Allston
D. H. Litter & Co., Inc.

Michigan, Detroit
Baker & Collinson
Missouri, Kansas City &
St. Louis
Missouri Solvents &
Chemicals Co.

New York, Buffalo
Buffalo Solvents &
Chemicals Corp.

New York, New York
D. H. Litter & Co., Inc.

Ohio, Cincinnati
Amsco Solvents & Chemicals Co.

Ohio, Cleveland
A. C. Mueller Co., Inc.

Oregon, Portland
Van Waters & Rogers, Inc.

Pennsylvania, Conshohocken
Van Horn, Metz & Co., Inc.

Texas, Houston
Federated Metals Division

Utah, Salt Lake City
Braun-Knecht-Heimann Co.

Washington, Seattle
Van Waters & Rogers, Inc.

Wisconsin, Milwaukee
Wisconsin Solvents &
Chemicals Corp.

In Canada: Toronto & Montreal
Federated Metals Canada, Ltd.

LAKE ASBESTOS OF QUEBEC, LTD.

a subsidiary of American Smelting and Refining Company



ASARCO

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- R. J. Berry, President, Standard Asbestos Manufacturing Company, Cleveland, Ohio, September 15.
- W. John Scotford, Manufacturing Division Manager, Wunderlich Limited, Sydney, N.S.W., Australia, September 15.
- Charles Robert Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 18.
- W. N. Bolster, President & Treasurer, General Insulation Company, Cambridge, Massachusetts, September 20.
- Paul R. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, September 21.
- Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.
- W. S. Jeffrey, General Manager, Australian Asbestos (Pty) Limited, Marrickville, N.S.W., Australia, September 26.
- W. H. Fehrs, Vice President & Secretary, Union Asbestos & Rubber Company, Cicero, Illinois, September 28.
- J. M. High, Sales Manager—Insulation Division, Mundet Cork Corporation, North Bergen, New Jersey, September 28.
- John W. Humphrey, President, Philip Carey Manufacturing Company, Cincinnati, Ohio, September 28.
- R. L. Johnson, Vice President, Johns-Manville Corporation, New York City, September 28.
- Frank L. Sowka, Treasurer, Standard Asbestos Manufacturing Company, Chicago, Illinois, October 1.
- George Courtauld, Director, The Cape Asbestos Company Limited, London, England, October 2.
- W. W. Dunkin, Treasurer, Southern Friction Materials Company, Charlotte, North Carolina, October 5.
- Robert E. Skinner, Works Manager, Wunderlich Limited, Melbourne, Victoria, Australia, October 5.
- C. L. Moorman, Vice President, Union Asbestos & Rubber Company, Chicago, Illinois, October 6.
- Russell E. Crawford, Director, Baldwin-Ehret-Hill, Inc., Valley Forge, Pennsylvania, October 9.
- A. L. Penhale, President & Managing Director, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, October 11.
- H. R. Barrett, Executive Vice President, Philip Carey Manufacturing Company, Cincinnati, Ohio, October 13.
- W. M. Paxton, Sales Manager—Packing Department, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, October 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



***Producers of
Raw Asbestos Crudes
& Fibres***



Sales Representatives

for

Cassiar Asbestos Corporation Limited

George Barge, a member of the Board of Directors of KEASBEY & MATTISON COMPANY since 1958, was elected Vice President—Finance, it was recently announced by Robert R. Porter, President and Chairman of the Board.

Mr. Barge began his career with the asbestos-products manufacturer at its St. Louis, Missouri, plant in 1934. He was transferred to the accounting department at Ambler, Pennsylvania, in 1947, assuming the position of Assistant to the Treasurer. In 1951, he was elected Treasurer, and in October 1958 was elected to the Board of Directors.

Albert F. Humlhanz was elected Treasurer of KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania, moving into the position formerly held by Mr. Barge. Mr. Humlhanz continues in his position as Controller.

Mr. Humlhanz previously held the position of Assistant Treasurer and Controller since October 1958. He joined K&M as an accountant in 1948 and in 1953 was appointed Assistant to the Treasurer.

William L. Keady, 67-year old President of FIBREBOARD PAPER PRODUCTS CORPORATION, San Francisco, California, told stockholders August 1, 1960, that he is "relinquishing his duties" after eight years as Chief Executive. He said he will continue as a Director and will be in charge of the company's foreign operations.

E. W. Carey, Vice President-Marketing, has been elected President and Chief Executive Officer to take office August 26, 1960, upon expiration of Mr. Keady's employment contract.

Mr. Carey, 57 years old, joined Fibreboard in 1957 as Vice President-Administration. He was named Vice President-Marketing in January, 1959, and was elected a member of the company's Board of Directors on July 21, 1959.

Previously, Mr. Carey was associated with United States Gypsum Company from 1929 to 1951 and later became Executive Managing Coordinator for a group of businesses in Indiana. Mr. Carey is a Director of the San Francisco Chamber of Commerce.

POLYREZ

PHENOLIC RESINS IN

Liquid, Lump and Powder
For All Friction Materials.

POLYREZ COMPANY, INC.

RAILROAD & SO. COLUMBIA

WOODBURY, N. J.



Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.)
LTD.

P. O. BOX 11000

RAND CENTRAL — 145 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

CURRENT RANGE OF PRICE

As of September 10, 1960

ARIZONA—

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	.....	\$1,475.00 to \$1,800.00
No. 2 Crude (soft)	.....	830.00 to 1,050.00
Group-3 (Filtering & Spinning)	.....	350.00 to 450.00
Group-4 (Plastic & Filtration)	.....	190.00 to 250.00
Group-5 (Plastic & Moulding)	.....	125.00 to 177.00
Group-7 (Refuse & Shorts)	.....	60.00 to 100.00

CANADA—

Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	.....	\$1,410.00 to \$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	.....	610.00 to 875.00
Group No. 3 (Spinning Fibre)	.....	350.00 to 650.00
Group No. 4 (Shingle Fibre)	.....	180.00 to 245.00
Group No. 5 (Paper)	.....	120.00 to 150.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
Group No. 7 (Refuse or Shorts)	.....	40.00 to 80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	.....	\$ 353.00 to \$ 440.00
Group No. 4 (Shingle Fibre)	.....	181.00 to 218.00
Group No. 5 (Paper Fibre)	.....	120.00 to 142.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
Group No. 7 (Refuse or Shorts)	.....	41.00 to 75.00

Herman Frohman has been appointed as Export Manager of THE RUBEROID CO., a newly-created post. Mr. Frohman was formerly Vice President of Owens-Corning Fiberglas International, S.A., New York City, and Operations Manager of the International Division of Owens-Corning.



International Asbestos Cement Review
An architectural quarterly devoted to the
promotion of asbestos-cement, published
in English, French and German editions
Circulation exceeding 44,000
Editions Girsberger, 40 Kirchgasse,
Zurich, Switzerland
(U. S. agents: Wittenborn & Co.
38 East 57th Street, New York 22)

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ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

August 1960

	Par	Low	High	Last
Advocate Mines, Ltd.	1	\$3.35	\$3.75	\$3.70
American Brake Shoe	np	38¼	40⅞	40⅞
Armstrong Cork (Com)	1	42⅞	45¼	45
Armstrong Cork (Pfd)	np	81	84	82¾
Asbestos Corporation	np	22¼	26½	26½
Philip Carey	10	23¾	26½	25¾
Cassiar Asbestos Corp.	np	11½	12	11⅞
Celotex (Com)	1	22	23⅞	22½
Celotex (Pfd)	20	17	17¾	17½
Certain-Teed	1	11⅞	12½	11⅞
Fibreboard	np	28½	32¾	30¾
Flintkote (Com)	5	32¼	35¾	34¾
Flintkote (Pfd)	np	81¼	85	84
Johns-Manville	5	53¼	57⅞	54
National Gypsum (Com)	1	49½	53½	52½
National Gypsum (Pfd)	np	91¾	95	95
Porter, H. K.	100	89¼	91½	90
Raybestos-Manhattan	np	45¾	66	65¼
Ruberoid	1	33½	36	34⅞
Unarco	5	7½	10½	10¼
United Asbestos	1	\$3.85	\$4.40	\$4.25
U. S. Gypsum (Com)	4	96	101¾	96
U. S. Gypsum (Pfd)	100	156	162½	160
U. S. Rubber (Com)	5	48	53¼	50
U. S. Rubber (Pfd)	100	154¾	157¼	155

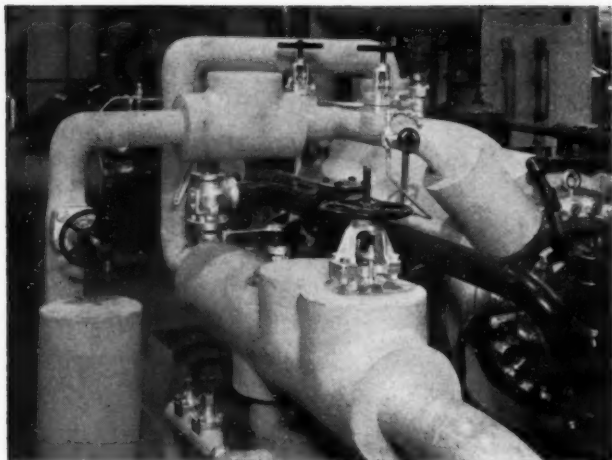
John E. Brennan has been named Staff Assistant to A. J. McMullem, President of GARLOCK, INC. Garlock is the world's largest manufacturer of packings, gaskets and sealing devices of all types.

" Tropag "

Hamburg — : — Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS



Maximum control of temperatures with **PABCO PRECISION-MOLDED CALTEMP** a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations.

For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

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INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

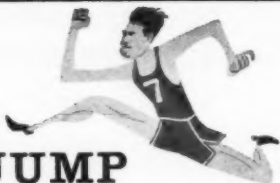
Marion F. Smith has been appointed as Chief Chemist in Charge of Research for **ASBESTOS BONDING CORPORATION**, a division of The Clute Corporation, it was recently announced by Patrick M. Tabor, President of ABC.

Mr. Smith will be headquartered at the new asbestos mill now under construction at the ABC mine near Napa, California. He will be in charge of Research and Development, as well as Quality Control at the 1,000-ton a day mill.

Colon Brown has been elected Vice President in Charge of Corporate Development by the Directors of **NATIONAL GYPSUM COMPANY**. In his new post, Mr. Brown will report to Chairman Melvin H. Baker and will be in charge of activities dealing with long-range planning, coordination of subsidiaries, corporate development and acquisitions.

William M. North, whom Mr. Brown succeeds, has been promoted to President of the American Encaustic Tiling Company, **NATIONAL GYPSUM COMPANY** ceramic tile subsidiary, headquartered in Lansdale, Pennsylvania.

Malcolm A. Schwelker, a **NATIONAL GYPSUM COMPANY** Director, will continue as Chairman and Chief Executive of American Encaustic Tiling Company.



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TO MEET YOUR SPECIAL NEEDS
IN ASBESTOS TEXTILES . . .

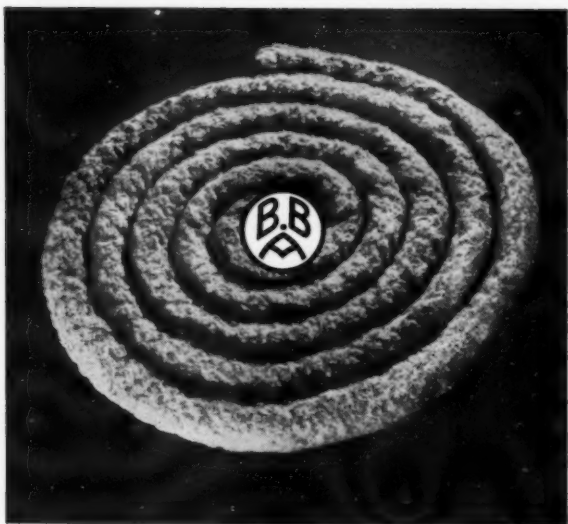
Just let "U.S." know your asbestos textile requirements. We'll break our necks to develop the special yarn, fabric or tape that does the job for you. Spinning and weaving closely controlled for maximum uniformity at our modern Hogansville, Ga. plant.



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United States Rubber

Rockefeller Center, New York 20, N. Y.



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BRITISH BELTING & ASBESTOS LTD

CLECKHEATON, YORKSHIRE, ENGLAND



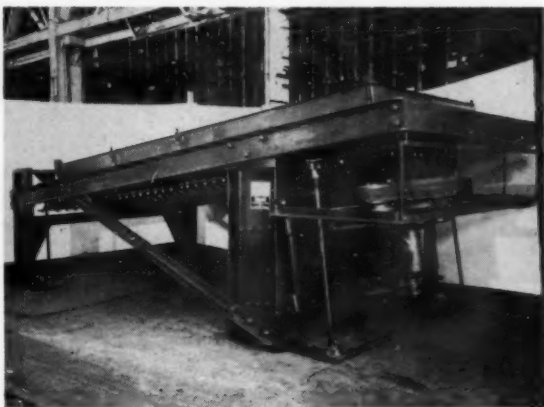
HALL MACHINERY OF CANADA LIMITED

Manufacturers of

MINING AND MILLING MACHINERY for the ASBESTOS INDUSTRY ANNOUNCES

THE NEW—MODEL "60" GYRATORY SCREEN

designed and patented by Denovan Ltd.



The Hall Model "60" Gyratory Screen offers the following advanced features:—

NEW—Compensated balance system, reducing frame vibration to a minimum.

NEW—Low frame, providing unobstructed headroom above deck, maximum clearance below deck and open access at tail end.

NEW—Deck support rods, permitting variable angle flow control at tail end.

The advantages of high capacity and efficiency, combined with rugged simplicity and low upkeep which characterized earlier models have been maintained and improved upon in

the Hall Model "60".

For additional information on this and other Asbestos processing equipment, write to:—

HALL MACHINERY OF CANADA LIMITED

P.O. Box 877, Sherbrooke, Quebec

"too
bad
they
couldn't
have
used



CORRUGATED ASBESTOS"

Low-cost "K&M" Corrugated Asbestos is a fire-, weather-, and vermin-proof building material. Ideal for roofing and siding for warehouses, industrial plants, commercial buildings. Can be furnished in a curved sheet. Or, impregnated for use in heavy industrial atmospheres. Won't rot, dent, delaminate, or corrode. Available in handsome stone gray, or, on special order, in 7 high-fidelity Trend Colors.

Write today for more information to: Keasbey & Mattison Company, Ambler, Pa., Dept. 1000.

Keasbey & Mattison at Ambler

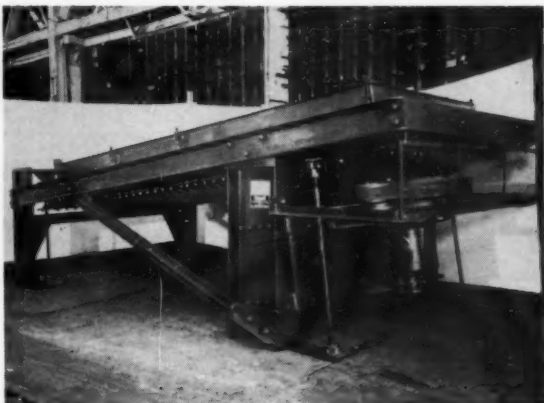
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ASBESTOS — TEXTILES



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